

Fig.1 SEQ ID NO:1. *Arthrobacter hsp70* DNA sequence (5' to 3'), 2464 nt including 5' and 3' UTR. The predicted ORF (nt 291-2156) is underlined

CTGCGAATGTCCACGTGGTGCAGTGATGCGCTTGAAGGGCATCGCACCGCGCTGAA  
CCGGGTTCGACCCGGTCCCACTGAGTTGCCAACTGAGTGGGACAAGCCGTTCTGCCC  
AGTCACCGCGTCGACTCAGTGGGACCACGCCGAGCGCAGTCATGGTCGCCGCACAGC  
TTTTTCAAAGTTGAGCACAGGTGGCTCAACTTAGACTTGACATTGGTCGGCTCAAGCGT  
AAAGTTGATATCAGAACACTCAACTTGTAAAGAAATCCCGAAAGGAAAAAACATGTCACG  
TGCAGTAGGCATCGACCTCGGAACCACCAACTCGGTGGTTCCGTCTCGAAGGCGCGA  
GCCCGTCTCGTATCGCGAACGCCGAAGCGGCCGACCACCCCTCAGTCGCGCTTCTC  
CAAGAGCGGTGAAGTCCTGGTCGGCAAATGCCAACGCCAGGCCGTCAACAAACATCG  
ATCGCACCATCGCCTCGGTCAAGGCCACATGGGACCGACTGGACCGTCGGCATCGACG  
ACAAGAAGTACACCGCCAGGAAATCTCCGCCGCACCCCTGATGAAGCTCAAGAACGAC  
GCCGAGTCCTACTTGGCGAAAGGTCAACCGACGCCGTTGATCACGGTTCTGCCTACTTC  
AACGACGCCGAGGCCAGGCCACCAAAGAACGCCGTGAGATGCCGGCTGAACGTGCT  
GCGCATCGTCAACGAGCCACTGCCGGCGCTGGCCTATGGCTGGACAAAGGCAAAG  
AAGACGAACTCATCCTGGCTTCGACCTCGGTGGCGCACCTCGACGTCTCGCTGCTGG  
AAGTCGGCAAAGACGACGACGGTTCTCCACGATCCAGGTCCGCCACCTCCGGCGAC  
AACCGCCTGGCGCGACGACTGGGATCAGCGATCGTCAACTTGCTGAACCAGCTC  
AAGGTCAAGGGCATCGACCTCTCCAAGGACAAGATCCGCTGCGCTCGCGAAGC  
TTCCGAGCAGGCCAAGAAGGAACCTCTCGGCCACCAAGCACCACATCTCGCTGCAAGT  
CCTCTCGGTACCCCTGACGGTCCGGTGCACGGACGAGCAGCTGACCCGGCGAAGTT  
CCAGGAACGTACCGCTGATCTGCTCGAGCGCACCAAGAACGCCGTCCAGGACGTGATCGC  
CGAGGCCGGGATCAAGGTTCCGACATCGACCAACATCGTGTGGTCGGCGGTCCACCCG  
GATGCCCGCAGTGACCGAATTGGTCAAGCAGCTGGCCGGTGGCAAGGAGCCGAACAAGG  
GCGTCAACCCGGACGAGGTGGTCGCCGTGGCGCCGCTGCAAGCCGGCGTGTCAAG  
GGCGAACGCAAAGACGTGCTGCTCATCGACGTCAACCCGCTTCCCTCGGCATCGAAACC  
AAGGGCGCGTGTGATGACCAAGCTGATCGAGCGGAACACCGCGATTCCGACCAAGCGGTC  
CGAGACCTTACCCACGGCGGACGACAACCGACGCCCTCGGTGGCCATCCAGGTGTTCCAAGG  
CGAGCGCGAGTTACCCGGGACAACAAGCCGTTGGGCACCTTCGAACGTGACCGGCATCG  
CACCCGGCTCCCGCGCGCGTGGCGAGGTGCAAGTCACCTCGACATCGACGCCAACGGCA  
TCGTGCACGTGTCGGCAAAGACAAGGGCACCGGAAGGAGCAGTCGATGACCATCACC

GGCGGTTCCCTCGCTGTCCAAGGAAGACATCGAGCGCATGGTCGCCGACGCCGAGGCACA  
CGCTGCAGAGGACAAGGCCCGCGAGCAGGCCGAGGCCGACACAGGCCGAGCAGC  
TGGCGTACTCGGTGGACAAGATCCTCACCGACAATGACGACAAGCTGCCGGAAAGAGGTC  
AAGACGGAGGTCAAGGCCGACGTGGGGCGCTCAAGACCGCGCTGGCCGGCACCGATGA  
GGACCGGGTCGAGGCCGCTCGAGAAGCTGCAGGCTTCGAGACCAAACCTGGCGGAG  
CGATTTACGCTTCGGCCCAGGCCGAGGTGCCGCTGCCGGTACGCCCGAGCGAAG  
GTGCCAAGCCCACGAAGACATCGCGACGCCGAGATCGTGGACGAAGAACCGAAG  
AACGAGAAGAAGTAGTCATGTCCGACCAAGGCCAATCTGATCAGGCCGAAACCCGAA  
AAAGACGAAACCGACGTGGACCCGGCAACGGGTCCCGCCGGGACGTTCCGGAGGAGCA  
GGATCCTTGGCGCAAGTCGAAGACATCCTGAACAATGCCGAGGTGCCGCCGACGAGTC  
GGTGGCCCAAGGCCGCTCGAGGTGGATGCCGAGAACTCAAGAACGATCTGCTGCGCT  
TGCAGGCCGAATACGTGAACCTACCGCAAACCGCTCGAGCGGGACACCAGCCGGCCGT  
CGACCACCGTGCCCTATAGTAAGGGC

Fig.2 SEQ ID NO: 2. Predicted amino acid sequence of *Arthrobacter* hsp70

MSRAVGIDLGTTNSVSVLEGGEPVVIANAEGGRTTPSVVAFSKSGEVLVGEIAKRQAVNNI  
DRTIASVKRHMGTDWTVGIDDKKYTAQEISARTLMKLKNDAESYLGEKVTDAVITVPAYFND  
AERQATKEAGEIAGLNVLRLIVNEPTAAALAYGLDKGKEDELILVFDLGGGTFDVSLLLEVGKDD  
DGFSIQTQVRATSGDNRLGGDDWDQRIVDYLLNQLKVKGIDLSKDKIALQRRLREASEQAKKEL  
SSATSTNISLQYLSVTPDGPVHLDEQLTRAKFQELTADLLERTKKPFQDVIAEAGIKVSDIDHI  
VLVGGSTRMPAVTELVKQLAGGKEPNKGVPDEVVAVGAALQAGVLKGERKDVLVIDVTPL  
SLGIETKGGVMTKLIERNTAIPTKRSSETFTTADDNQPSVAIQVFQGEREFTRDNKPLGTFELT  
GIAPAPRGVPQVEVTFDIDANGIVHVSAKDKGTGKEQSMTITGGSSLSKEDIERMVADAEAH  
AAEDKARREQAEARNSAEQLAYSVDKILTDNDDKLPEEVKTEVKADVGALKTALAGTDEDA  
VEAASEKLQASQTKLGGAIYASAQAEGAAAAGDAPSEGAKPDEDIVDAEIVDEEPKNEKK

predicted pl= 4.70 / predicted size= 66 kDa